



03-21-00

A  
Patent  
249/210

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 245/160  
First Named Inventor: Ki Il Kim  
Prior Application Information:  
Serial No. 08/846,108  
Examiner: Appiah, C.  
Art Unit: 2745

BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D. C. 20231



FILING UNDER 37 CFR § 1.53(b)

This is a request for filing for a

☐ continuation ☐ divisional ☒ continuation-in-part (CIP)

application under 37 CFR § 1.53(b) of pending prior application Serial No. 08/846,108 filed on April 25, 1997, which will issue as U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_, by

**Ki Il Kim**, entitled:

**Mobile Entertainment And Communication Device**

For CONTINUATION or DIVISION APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied, referenced above, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

CERTIFICATE OF MAILING  
(37 C.F.R. §1.10)

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as 'Express Mail Post Office To Addressee' in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

EL369228175 US  
Express Mail Label No.

3-20-2000  
Date of Deposit

Saundra L. Carr  
Name of Person Mailing Paper  
Saundra L Carr  
Signature of Person Mailing Paper

# I. APPLICATION ELEMENTS ENCLOSED

8 Page(s) of Written Description  
 8 Page(s) of Claims  
 1 Page(s) of Abstract  
 2 Sheet(s) of Drawings ☒ formal ☐ informal  
 2 Page(s) of ☐ Declaration or ☒ Declaration and Power of Attorney  
☐ Copy from prior application [37 CFR §1.63(d)]  
☒ Newly executed

☒ Declaration Under 37 CFR 5.25

☒ Petition Under 37 CFR 5.25 For Retroactive License

☐ Assignment papers (cover sheet and documents(s))

☒ An Information Disclosure Statement, PTO 1449, ☒ with copies of cited items.

☒ A Verified Statement to establish small entity under 37 CFR §§ 1.9 and 1.27: ☒ Is attached. ☐ Has been filed in the prior application and such status is still proper and desired. [37 CFR § 1.28(a)]

## II. FEE CALCULATION

<b>BASIC FILING FEE:</b>						\$690.00
Total Claims	71	-	20	=	51	x \$18.00 \$918.00
Independent Claims	3	-	3	=	0	x \$78.00 \$0.00
Multiple Dependent Claims	\$260	(if applicable)				<input checked="" type="checkbox"/> \$260.00
<b>TOTAL OF ABOVE CALCULATIONS</b>						\$1,868.00
Reduction by ½ for Filing by Small Entity. Note 37 CFR §§ 1.9, 1.27, 1.28. If applicable, Verified Statement must be attached.						<input checked="" type="checkbox"/> \$934.00
Misc. Filing Fees (Recordation of Assignment)						\$0.00
<b>TOTAL FEES DUE HERewith</b>						\$934.00

**III. PRIORITY - 35 USC § 119**

- ☒ Priority of application Serial No. 20-199-0028580, filed December 17, 1999 and 20-199-0022160 filed on October 15, 1999 in So. Korea is claimed under 35 USC § 119.
- ☐ The certified copy has been filed in prior U.S. application Serial No. \_\_\_\_\_ on \_\_\_\_\_.
- ☒ The certified copy will follow.

**IV. AMENDMENTS**

- ☐ Cancel in this application original Claims \_\_\_\_\_ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes if no new claims are added in a preliminary amendment.)
- ☐ A Preliminary Amendment is enclosed. (Claims added by Amendment must be numbered consecutively beginning with the number next following the highest numbered original claim in the prior application.)

**V. RELATE BACK - 35 USC § 120**

- ☐ Relate back information included in preliminary amendment or specification.
- ☒ Please amend the specification as follows:  
08/846,108, filed April 25, 1997
- ☒ With respect to the prior co-pending U.S. application from which this application claims benefit under 35 USC § 120, the inventor(s) in this application is (are) [37 CFR 1.53(b)(1)]:
- ☒ the same.
- ☐ less than those named in the prior application and it is requested that the following inventor(s) identified above for the prior application be deleted [see 37 CFR §§1.33(b) AND 1.63(d)(2)]:

**VI. FEE PAYMENT BEING MADE AT THIS TIME**

- ☐ Not attached. No filing fee is submitted. [This and the surcharge required by 37 CFR § 1.16(e) can be paid subsequently.]
- ☒ Attached.
- |  |                 |
|--|-----------------|
| <input checked="" type="checkbox"/> Filing fees.   | <u>\$934.00</u> |
| <input type="checkbox"/> Recording assignment. [\$40.00 37 CFR § 1.21(h)(1)]   | —               |
| <input type="checkbox"/> Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. [\$130.00; 37 CFR §§ 1.47 and 1.17(h)] |                 |
| <input checked="" type="checkbox"/> Petition fee Under 37 CFR 5.25 For Retroactive License [\$130.00;]   | <u>\$130.00</u> |

- ☐ For processing an application with a specification in a non-English language. —  
[**\$130.00**; 37 CFR §§ 1.52(d) and 1.17(k)]
- ☐ Processing and retention fee. —  
[**\$130.00**; 37 CFR §§ 1.53(f) and 1.21(l)]

**Total Fees Enclosed**    **\$1,064.00**

**VII. METHOD OF PAYMENT OF FEES**

- ☒ Attached is a check in the amount of **\$1,064.00**.
- ☐ Charge Lyon & Lyon's Deposit Account No. **12-2475** in the amount of \_\_\_\_\_.

**VIII. AUTHORIZATION TO CHARGE ADDITIONAL FEES**

The Commissioner is hereby authorized to credit Lyon & Lyon's Deposit Account No. **12-2475** for any over payment of fees and to charge the following additional fees by this paper and during the entire pendency of this application to Deposit Account No. **12-2475**:

- ☒ 37 CFR § 1.16 (Filing fees and excess claims fees)
- ☒ 37 CFR § 1.17 (Application processing fees)
- ☐ 37 CFR § 1.18 (Issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR § 1.311(b))
- ☐ 37 CFR § 1.21 (Assignment recordation fees)

**IX. POWER OF ATTORNEY & CORRESPONDENCE ADDRESS**

- ☐ The power appears in the original papers in the prior application.
- ☐ The power does not appear in the original papers, but was filed on \_\_\_\_\_ in prior application Serial No. \_\_\_\_\_.
- ☒ A new power has been executed and is attached.

Please send all correspondence to Customer Number 22249:



**22249**

PATENT TRADEMARK OFFICE

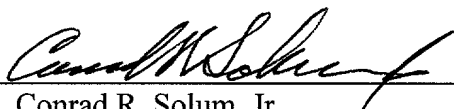
LYON & LYON LLP  
Suite 4700  
633 W. Fifth Street  
Los Angeles, CA 90071

Please direct all inquiries to CONRAD R. SOLUM, JR., at (213) 489-1600.

Respectfully submitted,

LYON & LYON LLP

Dated: 3/18/00

By:   
Conrad R. Solum, Jr.  
Reg. No. 20,467  
Customer No. 22249

Enclosures

Applicant or Patentee: Ki Il Kim  
 Serial or Patent No. : \_\_\_\_\_  
 Filed or Issued: \_\_\_\_\_  
 For: Mobile Entertainment And Communication Device

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) AND 1.27(b)) – INDEPENDENT INVENTOR**

As a below-named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark office with regard to the above-entitled invention described in

- ☒ the specification filed herewith  
☐ the application serial no. \_\_\_\_\_, filed \_\_\_\_\_.  
☐ patent no. \_\_\_\_\_, issued \_\_\_\_\_.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed or licensed or am under an obligation under contract or law to assign, grant, convey or license any rights in the invention is listed below. **NOTE:** Separate verified statement are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

- ☒ no such person, concern or organization.  
☐ persons, concerns or organizations listed below:

FULL NAME \_\_\_\_\_


ADDRESS \_\_\_\_\_

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statement and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Ki Il Kim  
 Name of Inventor

  
 Signature of Inventor

3/17/2000  
 Date

\_\_\_\_\_  
 Name of Inventor

\_\_\_\_\_  
 Signature of Inventor

\_\_\_\_\_  
 Date

MOBILE ENTERTAINMENT AND COMMUNICATION DEVICE

This is a Continuation-In-Part of application Serial No. 08/846,108, filed April 25, 1997.

This invention relates to a mobile entertainment and communication device that is readily carried by a person and provides numerous conveniences and features including, but not limited to, a cellular or satellite telephone with access to the internet.

A principle object of this invention is to provide a personal entertainment and communication device that is portable and includes a cellular or satellite accessible telephone with the ability to access the internet, replaceable memory cards for downloading data from the internet, and means for reproducing such data on the device from the cards. Specifically, the device of this invention is particularly adapted to download music, images or other data in a wireless manner from the internet and selectively reproduce such music, images or other data from replaceable memory cards for one's personal enjoyment or other use.

Still another object of the present invention is to provide a mobile entertainment and communication device that wirelessly records data from the internet and selectively reproduces that data, such as music and/or images, and also provides a portable security device capable of automatically communicating with a remote telephone and transmitting emergency data including sounds, pictures, location and similar information when selectively activated by the owner or when automatically activated by conditions sensed by integral sensors, including conditions such as sudden movement, sounds, light, heat, smoke or the like.

Other and more detailed objects and advantages of the present invention will readily appear to those skilled in the art from the detailed description and accompanying drawings of the preferred embodiments, wherein:

Fig. 1 is a perspective view of the front of the entertainment and communication device of the present invention;

Fig. 2 is a perspective view of a replaceable memory card for use with the device illustrated in Fig. 1;

Fig. 3 is a perspective view of the back of the entertainment and communication device of the present invention showing an optional card latching device;

Fig. 4 is a sectional view of the device taken on the line 4-4 in Fig. 3; and

Fig. 5 is a schematic drawing of the components of the entertainment and communication device shown in Figs. 1 and 2.

Referring more particularly to the figures, the entertainment and communication device, generally designated 100, includes a cellular telephone or satellite accessible telephone or the like, hereinafter referred to collectively as a "cellphone", having a dialing pad 101 with push buttons for operating the cell phone in a substantially conventional manner and also for controlling the operation of other components of the device 100. The cellphone includes a microphone 103 and a speaker 125 for using the cellphone as a telephone for verbal communications. A display panel 104 is provided on the front of the device 100 for displaying images and data, including but not limited to the conventional data displayed for the use of the cellphone. The cellphone also includes a dialing memory 113, a dialing section 114, a transmitting/receiving section 115, an antenna 119 and a ring signal capturing section 122. The microphone 103 and speaker 125 are connected through an audio signal processing section 108 to the microprocessor 112 of the device 100. The dialing memory 113, dialing section 114, transmitting/receiving section 115, ring signal capturing section 122 and dialing pad 101 are also



connected to the microprocessor 112 for operating the cellphone in a conventional manner through the microprocessor 112.

The cellphone of the entertainment and communication device 100 is of the type that is capable of making a wireless connection to the internet for receiving data therefrom and transmitting data thereto, such as the Samsung® Model No. 3500, Qualcomm® No. 1960, Sprint® PCS, or the like, without a hardwire connection through a personal computer or telephone line.

The entertainment and communication device 100 of the present invention is provided with a socket 120 for receiving a replaceable memory card 200. The opening for the socket 120 may be provided on the side of the device 100, as shown at 120A, or at one end of the device 100, as shown at 120B, or both. The memory card 200 is provided with electrical contacts 201 (see Fig. 2) which are adapted to engage corresponding electrical contacts (not shown) in the socket 120, which contacts in turn are connected to the microprocessor 112 for communication between the replaceable memory card 200 and the microprocessor 112. The memory card 200 may be a prerecorded card or a flash (blank) card suitable for recording data from the microprocessor 112. By appropriately operating the cellphone to connect to or access the internet and then operating the memory card control buttons 202, data from the internet may be recorded on the replaceable memory card 200, such as musical performances, images (still or moving), written text or the like (hereinafter referred to as "data"). In addition to the audio data, the musical performance data from the internet may include images of the performers or the like, and/or the words of the musical performance. Other audio and visual data also may be downloaded from the internet to memory card 200. Subsequent to the recordation of the musical performance or other data on the replaceable memory card 200 or upon the positioning of a prerecorded memory card 200 in a socket 120, the memory card control buttons 202 may be

manipulated to reproduce the musical performance or other data with the sound being broadcast by the speaker 125 or to earphones (not shown) connected to the earphone jack 121 or transmitted to wireless earphones (not shown). The device 100 also includes controls, such as on dialing pad 101 or separately, for controlling the music volume, balance, selection (skip), equalization and the like. The images and/or words included in the recording on a memory card 200 will be displayed on the display panel 104.

The memory card 200 is preferably of a high memory capacity and a size to fit substantially inside the housing of the device 100 so as not to protrude therefrom and yet be of substantially the full width of the device 100 to maximize the memory capacity of the card 200 substantially beyond the memory capacity of conventional prerecorded memory cards, such as for MP3 players. Of course, the width of the device 100 is limited from a practical standpoint to a width that is comfortable in the palm of an adult person's hand for use as a telephone. Thus, as a practical matter, the width of the memory card is limited to about 1 1/2" to 2". Similarly, the overall size of the device 100 must be sufficiently small to be comfortably carried in a pocket or purse to be most practical. Further, while the thickness of the card 200 may be increased somewhat for increasing the memory capacity there is also a practical limit to that increased thickness so that the thickness of the device 100 does not become excessive, but it is contemplated that memory cards 200 of about twice the thickness may be provided and interchangeably installed in the socket 120 for at least doubling the memory capacity or separate sockets, such as sockets 120A and 120B, may be provided for accommodating memory cards 200 of different thicknesses. Still further, the length of the device 100 is limited to a practical length and, therefore, the vertical length of the card is similarly limited. The card 200 and socket 120 may be provided with matching non-symmetrical shapes, grooves, ridges or the like

for requiring the card 200 to be inserted into the socket in the correct orientation, such as the cut-off corner of card 200 shown in Fig. 1 (lower left) and Fig. 2 (lower right). The device 100 may also be provided with an integral image and audio storage memory 116 connected to the microprocessor for temporary or permanent storage of data, in addition to data storage on cards 200, and the data stored on memory 116 may be reproduced in the same manner as from replaceable memory cards 200.

Referring more particularly to Figs. 3 and 4, a latching device, generally designated 150, is shown for retaining the replaceable memory card 200 in the socket 120A and for facilitating the removal of the memory card 200 from the socket 120A. The latching device 150 includes a lever 152 pivotally connected at 154 to the back of the housing of the device 100, with a tab 156 extending along the side of the device and over a portion of the socket 120A in the closed position. A pin 158 extends inwardly from the lever 152 and engages a hole 204 in the memory card 200. When the latching device 150 is pivoted to the open position shown in dashed lines in Fig 4, the memory card 200 may be readily removed from socket 120A by placing a finger on the portion of the card 200 exposed by opening the latching device 150 or by engaging the hole 204 with a finger nail or a pointed implement, such as a pencil or pen. Further, the pin 158 and hole can be sized and relatively positioned such that the pin 158 urges the card 200 outwardly upon opening the latching device. Still further, the socket 120A may be provided with a spring for urging the card 200 outwardly as soon as the card is unlatched. Of course either the tab 156 or pin 158 may be omitted since the other (pin or tab, respectively) will retain the card 200 in the socket 120A. The latching device 150 may be of a width to only cover a portion of the socket 120A, as shown, or of a width to cover the entire socket (not shown).

Since the device 100 can be wirelessly connected to the internet, it is also possible to use the device 100 for any other internet functions, such as sending and receiving e-mail, conducting e-business, etc. Further, in view of the recording capability of the device 100, the telephone conversations on the cellphone may be selectively recorded (one or both sides) and the device can be used for any sound recording, such as for dictation or face-to-face conversations or conferences. Still further, the microprocessor 112 includes means for automatically interrupting the playing of any musical performance being reproduced on the device 100 when a telephone call is placed or received on the cellphone until the call is completed.

All of the aforescribed functions and those described hereinafter are powered by a battery means (not shown) in the device 100 which preferably is a single rechargeable battery.

The entertainment and communication device 100 is also provided with a computer jack 124 connected to the microprocessor for selectively connecting the device 100 directly to a computer, radio, television or CD, DVD, VCR, tape or phonograph record player (not shown) by a hard wire (not shown) for downloading and uploading (where appropriate) to and from the replaceable memory card 200 or fixed memory 116 in the device 100.

The entertainment and communication device 100 is also provided with various other features for the personal entertainment, communication, security, safety and the like of the person at all times that the person has the device 100 with him or her. A video camera 102 is connected through an image signal processing section 107 to the microprocessor 112 and the camera operation is controlled by button 105, whereby images may be displayed on the panel 104, recorded on either the integral memory 116 or the replaceable memory card 200, or transmitted by the cellphone to a remote telephone which may be located at a police station, security office, one's own personal computer or the like. The video camera 102 is preferably a

digital camera for electronically capturing images, either still or moving, for minimizing the size and battery power requirements, but also may be an analog type camera. Similarly, an infrared night vision camera 106 may be provided and connected to the microprocessor 112 through an infrared image processing section 109 to record or transmit images in the same manner as video camera 102, and a light sensor 118 is connected to the microprocessor 112 for automatically selecting the operation of the night vision 106 when the ambient light is at a very low level. Cameras 102 and 106 will be referred to generically as a "camera". The microphone 103 may also be activated manually or automatically by the microprocessor 112 when either of the cameras 102 or 106 are activated for recording and/or transmitting sounds within the range of the device 100 synchronously with the recording or transmission of images by one of the cameras.

The entertainment and communication device also includes various emergency features for use by the person carrying the device. An alarm button 123 is provided and may be activated to produce an audible alarm from the speaker 125 for dissuading an attacker or intruder or activating a silent alarm whereby the cellphone is automatically operated to communicate the emergency condition to a remote telephone, such as by dialing "911" or a private security telephone number or the like. Similarly, one or more sensors 110, such as motion, infrared, ultrasonic, acceleration sound, light, heat, smoke, carbon monoxide, poisonous gas or the like sensors, are provided with the device 100 and selectively activated for providing either an audible or silent alarm, similar to the functions of the panic alarm button 123 but without requiring operator activation, and the sensors 110 are connected through the sensor reading section 111 to the microprocessor 112 for using any of the functions of the device 100. For example, with the acceleration sensor of sensors 110 activated while a person has the device 100 in an automobile, the sudden deceleration of the automobile in an accident condition would be

sensed by the acceleration sensor to cause the microprocessor 112 to dial an appropriate telephone number stored in the dialing memory 113, such as a "911" or a vehicle rescue number, and transmit the emergency as well as the location of the device 100 as determined by a global positioning satellite (GPS) reading section 117 provided with the device, which GPS reading section 117 may also be activated by the panic alarm 123. Further, if the motion sensor or similar sensors 110 are activated and the device 100 is appropriately positioned, for example in a hotel room, the motion and/or presence of an intruder will be sensed and communicated through the sensor reading section 111 to the microprocessor 112 to activate any desired function, such as an audible alarm from the speaker 125, an automatic dialing of a "911" number, operation of electronic camera 102 or infrared camera 106, operation of the microphone 103, operation of the GPS reading section 117 or the like. Similar functions can be performed by the device 100 when any of the other sensors are activated to sense a particular condition, such as heat, smoke, carbon monoxide, poisonous gas or the like.

Thus, by this invention a palm-sized device provides wireless communication with the internet for downloading musical and visual entertainment onto a high capacity memory card that is replaceable with other prerecorded or downloaded memory cards, and numerous other communication, security, safety and similar functions are selectively available to the user.

WHAT IS CLAIMED IS:

1. A mobile entertainment and communication device, comprising:  
a housing of a palm-held size; a cellphone provided in said housing and having means for selectively and wirelessly connecting to the internet; a replaceable memory card socket provided in said housing for selectively receiving a replaceable memory card with substantially the entire card positioned within said housing; a microprocessor provided in said housing and operatively connected to said cellphone and replaceable memory card socket; a battery mounted in said housing and operatively connected to and supplying power for operating said cellphone and microprocessor; said microprocessor including means for selectively downloading data to said replaceable memory card from the internet when said cellphone is wirelessly connected to the internet and said replaceable memory card is positioned in said replaceable memory card socket; and means provided with said housing and operatively connected to said microprocessor for reproducing data from at least one of either said replaceable memory card and the internet.
2. The device of claim 1, wherein said means for reproducing data includes a speaker means for reproducing sounds.
3. The device of claim 2, wherein said means for reproducing data includes a display panel for displaying images.
4. The device of claim 1, further including a display panel provided on said housing and connected to said microprocessor and battery for displaying information concerning the operating status of said cellphone and the data.
5. The device of claim 4, wherein said cellphone and microprocessor include means for wirelessly downloading, from the internet, images relating to sounds simultaneously with the downloading of the sounds and for displaying said images on said display panel.

6. The device of claim 1, wherein said housing has a width for being held in a palm of an adult hand, and said replaceable memory card socket extends for substantially the entire width of said housing.

7. The device of claim 1, wherein said replaceable memory card has a width of 2 inches or less.

8. The device of clam 1, wherein said replaceable memory card socket is provided on a side of said housing and extends substantially the entire width of said housing.

9. The device of claim 1, wherein said replaceable memory card socket is provided on one end of said housing and extends substantially the entire width between side walls of said housing.

10. The device of claim 9, wherein a second said replaceable memory card socket is provided on a side of said housing and extends substantially the entire width of said housing.

11. The device of claim 1, wherein said replaceable memory card socket is of a thickness and is provided with means for accepting said replaceable memory cards of different thickness having different memory capacities.

12. The device of claim 1, wherein said means for reproducing data includes a speaker mounted in the housing that also comprises a speaker for said cellphone.

13. The device of claim 1, further including an earphone jack connected to said microprocessor for receiving a wire plug from an earphone set comprising said speaker means.

14. The device of claim 1, further including means for transmitting signals to a cordless earphone for reproducing sounds.



15. The device of claim 1, wherein said microprocessor includes means for automatically interrupting sounds being reproduced from said replaceable memory card upon activation of said cellphone for making or receiving a telephone call.

16. The device of claim 1, wherein a jack is provided in said housing and connected to said microprocessor for selective hardwire connection of said microprocessor to a computer for downloading and uploading the data between said computer and said replaceable memory card.

17. The device of claim 1, further including a latching device on said housing for selectively latching said replaceable memory card in said replaceable memory card socket.

18. The device of claim 17, wherein said latching device includes a pin for engaging a hole in said replaceable memory card.

19. The device of claim 1, wherein said replaceable memory card is provided with a hole for facilitating removal of said card from said socket.

20. The device of claim 1, further including a memory permanently connected to said microprocessor for selectively recording data.

21. A mobile entertainment and communication device, comprising:  
a housing of a palm-held size; a cellphone provided in said housing and having means for selectively and wirelessly accessing to the internet; a replaceable memory card socket provided in said housing for selectively receiving a replaceable memory card for storing audio and image data, with substantially the entire card positioned within said housing; a microprocessor provided in said housing and operatively connected to said cellphone and replaceable memory card socket; said microprocessor including means for selectively downloading audio and image data to said replaceable memory card from the internet and uploading data from said replaceable

memory card to the internet when said cellphone is connected to the internet and said replaceable memory card is positioned in said replaceable memory card socket; a display panel provided on said housing and operatively connected to said microprocessor for displaying image data from said replaceable memory card; speaker means provided with said housing and operatively connected to said microprocessor for audibly reproducing audio data from said replaceable memory card; and a battery mounted in said housing and operatively connected to and supplying power for operating said cellphone, microprocessor, display panel and speaker means.

22. The device of claim 21, further including a microphone also powered by said battery.

23. The device of claim 21, wherein said housing has width for being held in a palm of an adult hand, and said replaceable memory card socket extends for substantially the entire width of said housing.

24. The device of claim 21, wherein said replaceable memory card has a width of 2 inches or less.

25. The device of claim 21, wherein said replaceable memory card socket is provided on a side of said housing and extends substantially the entire width of said housing.

26. The device of claim 21, wherein said replaceable memory card socket is provided on one end of said housing and extends substantially the entire width between side walls of said housing.

27. The device of claim 26, wherein a second said replaceable memory card socket is provided on a side of said housing and extends substantially the entire width of said housing.

28. The device of claim 21, wherein said replaceable memory card socket is of a thickness and is provided with means for accepting said replaceable memory cards of different thickness having different memory capacities.

29. The device of claim 21, wherein said microprocessor includes means for automatically interrupting the audio data being reproduced from said replaceable memory card upon activation of said cellphone for making or receiving a telephone call.

30. The device of claim 1 or 21, further including a camera mounted in said housing and connected to said microprocessor and said battery; means for activating said camera for capturing images in view of said housing; and means for activating said cellphone for wirelessly communicating with a remotely located telephone by dialing the number of the remotely located telephone and, when said cellular telephone and the remotely located telephone are telephonically connected, then transmitting said images from said camera to the remotely located telephone or to the internet.

31. The device of claim 30, further comprising a memory for storing said images captured by said camera.

32. The device of claim 31, further comprising means for selectively causing said stored images to be transmitted by said cellphone to said remotely located telephone or to the internet.

33. The device of claim 30, further comprising means in said housing for receiving sounds, and said cellphone also wirelessly communicating said sounds to said remotely located telephone.

34. The device of claim 30, further including sensor means mounted in said housing for detecting a sound or movement near said housing, said means for activating said camera

being in communication with and responsive to said sensor means for automatically activating said camera upon the occurrence of the detected sound or movement.

35. The device of claim 34, further comprising means in said housing for receiving sounds and being activated when said sensor means detects a sound or motion, and said cellphone also wirelessly communicating said sounds to said remotely located telephone when said sensor means detects said sound movement.

36. The device of claim 34, wherein said sensor means also includes means for sensing at least one of impact, smoke, poisonous gas and heat.

37. The device of claim 34, further comprising a means on said housing for selectively arming said sensor means.

38. The device of claim 37, further comprising a jack connection for directly connecting said memory to a computer for downloading said stored images from said memory.

39. The device of claim 30, further comprising an audio recorder mounted in said housing and having means for selectively recording audible transmissions to and from said cellphone.

40. The device of claim 30, further comprising an audio recorder mounted in said housing and having means for selectively recording sounds within a range of said housing.

41. The device of claim 30, further comprising a switch means for manually activating said camera and said cellular telephone for both capturing and transmitting said images.

42. The device of claim 41, wherein activating said means also activates an audible alarm mounted in said housing.

43. The device of claim 30, further comprising means for activating an audible alarm mounted in said housing.

44. The device of claim 30 wherein said camera is an electronic digital camera.

45. The device of claim 30 wherein said camera is an infrared camera.

46. The device of claim 1 or 21, further including a Global Positioning System Means in said housing.

47. The device of claim 30, further including a Global Positioning System means in said housing and connected to microprocessor for transmitting the location of the device by the cellphone to the remotely located telephone.

48. The device of claim 1 or 21, further including a latching device on said housing for selectively latching said replaceable memory card in said replaceable memory card socket.

49. The device of claim 48, wherein said latching device includes a pin for engaging a hole in said replaceable memory card.

50. The device of claim 21, wherein said replaceable memory card is provided with a hole for facilitating removal of said card from said socket.

51. A mobile entertainment and communication device, comprising:  
a housing of a palm-held size; a cellphone provided in said housing and having means for selectively and wirelessly connecting to the internet; a memory provided in said housing; a microprocessor provided in said housing and operatively connected to said cellphone and said memory; a battery mounted in said housing and operatively connected to and supplying power for operating said cellphone and microprocessor; said microprocessor including means for selectively downloading data to said memory from the internet when said cellphone is wirelessly connected to the internet; and means provided with said housing and operatively connected to

said microprocessor for reproducing the data from at least one of either said replaceable memory card and the internet.

## ABSTRACT OF THE DISCLOSURE

A mobile entertainment and communication device in a palm-held size housing has a cellular or satellite telephone capable of wireless communication with the internet and one or more replaceable memory card sockets for receiving a blank memory card for recording data directly from the internet and, in particular, musical performances that then can be selectively reproduced by the device for the enjoyment of the user, including both audio and visual recordings and reproductions. The device also includes a camera and microphone for recording images and sound within the range of the device that can be wirelessly transmitted, either selectively or automatically to a remote telephone. Further, the device includes sensors for sensing unusual conditions that may also be transmitted to a remote telephone, together with the location of the device as determined by a GPS section of the device.

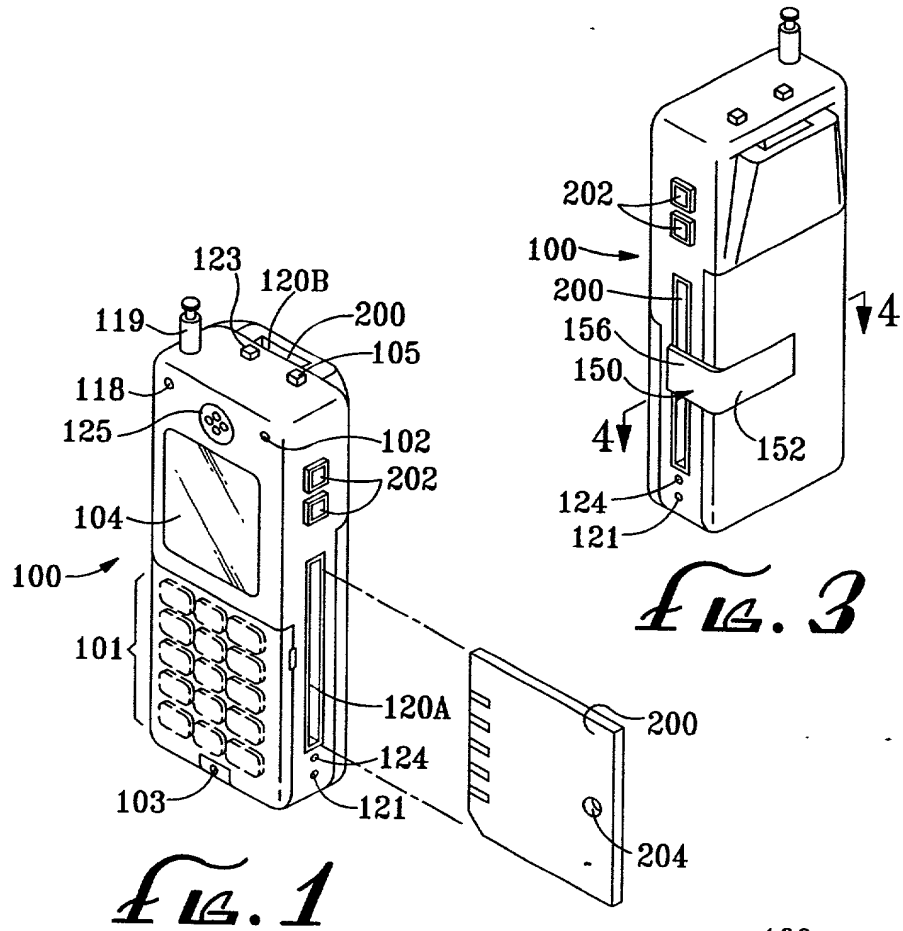


Fig. 1

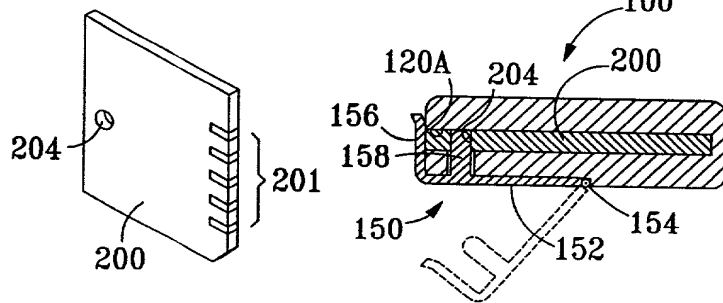
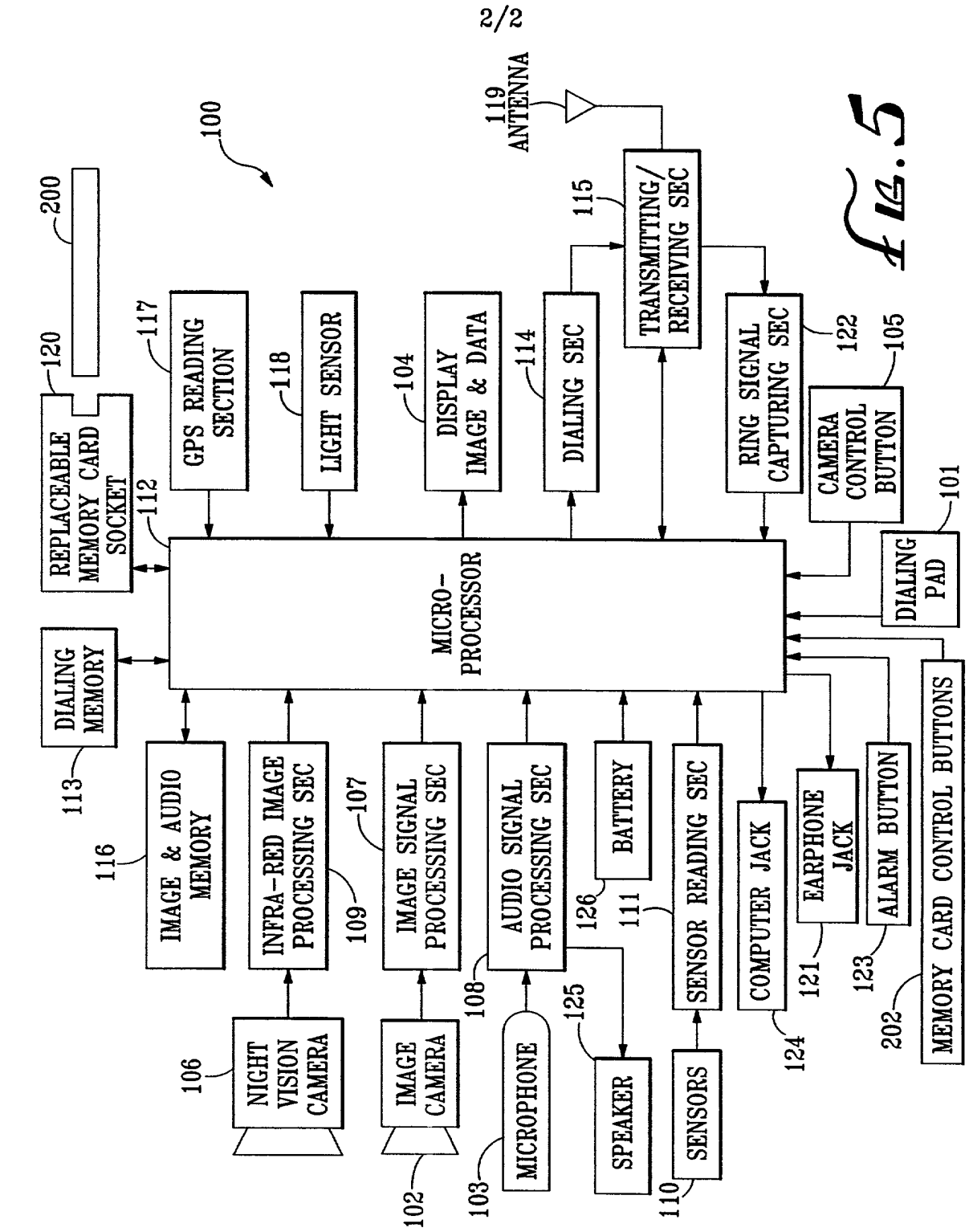


Fig. 2

Fig. 4





**DECLARATION UNDER 37 CFR.5.25**

I, Ki Il Kim declare as follows:

1. That I am a naturalized citizen of the United States of America, formerly a citizen of the Republic of Korea, and I currently reside at 255 So. Grand Avenue, Ste. 2004, Los Angeles, California 90012;

2. That I have executed a U.S. patent application this date entitled "Mobile Entertainment And Communication Device" that will be filed concurrently herewith;

3. That I filed patent applications in the Republic of Korea on October 15, 1999, Serial No. 20-199-0022160 and on December 17, 1999, Serial No. 20-199-0028580 containing material equivalent to material that is disclosed in this United States patent application;

4. That the subject matter contained in this United States patent application comprises material which was not under a secrecy order at the time the patent applications were filed in Korea, is not currently under a secrecy order, and it is believed that such material would not be subject matter of a secrecy order at any time;

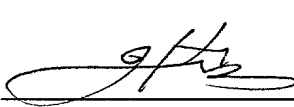
5. That I have diligently sought to obtain this license after being informed that such a license was required in connection with this U.S. patent application; and

6. That I periodically travel to Korea and communicate by telephone from the United States to Korea in connection with my business of designing and developing consumer products that can be manufactured in Korea for sale in the United States and elsewhere and, in that connection, in the Fall of 1999 I had telephone conversations with Mr. Cho of Now Precision Company concerning development of the product that is the subject matter of this U.S. patent application and that I became concerned that my proprietary information concerning the

subject matter of this U.S. patent application might be revealed to others who, with or without Mr. Cho, might file one or more patent applications in Korea claiming the subject matter of this U.S. patent application as being their invention. Since Korea awards patents in the case of a conflict between separate applications to the application that was filed first, I filed the two Korean patent applications to protect my rights in Korea without knowing that my rights to a patent in the United States might be jeopardized by such filings.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 3/17/2000

By:   
Ki Il Kim

**UTILITY DECLARATION  
AND POWER OF ATTORNEY  
Utility Application**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **Mobile Entertainment And Communication Device** the specification of which

(Check One)

☒  
☐

is attached hereto OR

was filed on \_\_\_\_\_ as United States Application Serial No. \_\_\_\_\_ or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Date of Filing	Priority Claimed	
			Yes	No
20-199-0028580	Korea	December 17, 1999	xxx	
20-199-0022160	Korea	October 15, 1999	xxx	

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date	Status-Patented, Pending or Abandoned
08/846,108	n/a	April 25, 1997	Pending

POWER OF ATTORNEY: As a named inventor, I hereby appoint as my attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office, and in countries other than the United States, and to do all things necessary or appropriate therefor before any competent International Authorities in connection with any international patent application(s) corresponding to the above-identified invention application, all of the registered practioners identified by Customer Number 22249:



22249

PATENT TRADEMARK OFFICE

LYON & LYON LLP  
Suite 4700  
633 W. Fifth Street  
Los Angeles, CA 90071  
(213) 489-1600

Please send all correspondence to the attention of Conrad R. Solum, Jr., and direct all telephone calls to (213) 489-1600.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

201	FULL NAME OF INVENTOR	FIRST Name KI	MIDDLE Initial IL	LAST Name KIM	
	RESIDENCE & CITIZENSHIP	City Los Angeles	State or Foreign Country California		Country of Citizenship United States
	POST OFFICE ADDRESS	255 So. Grand Avenue, Ste. 2004	City Los Angeles	State or Country CA	Zip Code 90012
INVENTOR'S SIGNATURE			DATE 3/17/2000		

202	FULL NAME OF INVENTOR	FIRST Name	MIDDLE Initial	LAST Name	
	RESIDENCE & CITIZENSHIP	City	State or Foreign Country		Country of Citizenship
	POST OFFICE ADDRESS		City	State or Country	Zip Code
INVENTOR'S SIGNATURE			DATE		

203	FULL NAME OF INVENTOR	FIRST Name	MIDDLE Initial	LAST Name	
	RESIDENCE & CITIZENSHIP	City	State or Foreign Country		Country of Citizenship
	POST OFFICE ADDRESS		City	State or Country	Zip Code
INVENTOR'S SIGNATURE			DATE		